

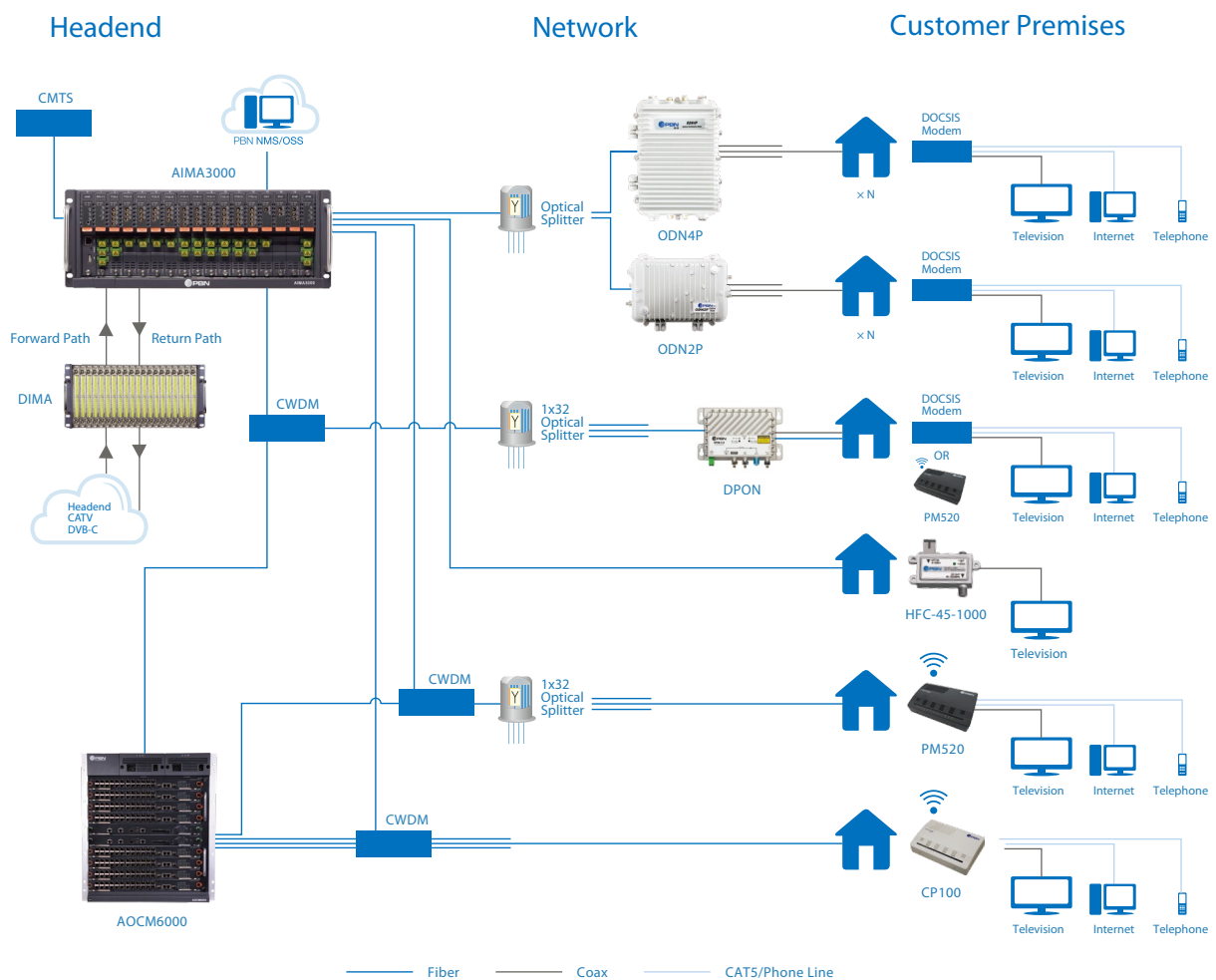


WE MAXIMIZE YOUR HFC RETURNS

**Fiber Deep Solutions for
Interactive HFC Networks**

PBN Offers HFC Solutions to Match Both Current and Future Demands

PBN's HFC products and services offer flexible and scalable solutions catering to small, mid-size, and tier-1 operators. MSOs are constantly being challenged with an ever-growing demand for bandwidth, increasing price pressures, and more competition. PBN's HFC, fiber-deep, RFoG and CATV overlay solutions allow operators to be prepared and equipped for future network demands and maximizing potential earnings from initial procurement investments.



Efficient Transport Infrastructure – Delivered

PBN's recently developed optical headend platform AIMA3000 is the flag-ship in our HFC headend portfolio. Industry-leading density, ultra-low power consumption and its modular design meet current as well as future demands. A series of 1RU transmitter, optical amplifiers and distribution components are designed for smaller sub-headend deployments. Complemented by a full-range of passive optical products, PBN guarantees highest system performance at low cost.

For the outside plant, PBN offers a full range of optical MDU, RFoG/FTTx compliant solutions up to fully segmentable 4-port optical fiber nodes. The majority of our fiber nodes are of modular design with optical plug-in units as well as swappable RF boat. Our on-board FSK transponder in conjunction with AIMA3000 headend equipment allows the operator to access crucial plant telemetry through the AIMA3000 HMS compliant SNMP MIB. An optional DOCISIS transponder is available as well.

A solution wouldn't be complete without the supporting management and configuration software. PBN provides NMS3 Enterprise which provides alarm, inventory and topology management for the entire PBN product family as well as 3rd party equipment. Geographical mapping of components is available for select regions.

Comprehensive, Scalable Product Portfolio

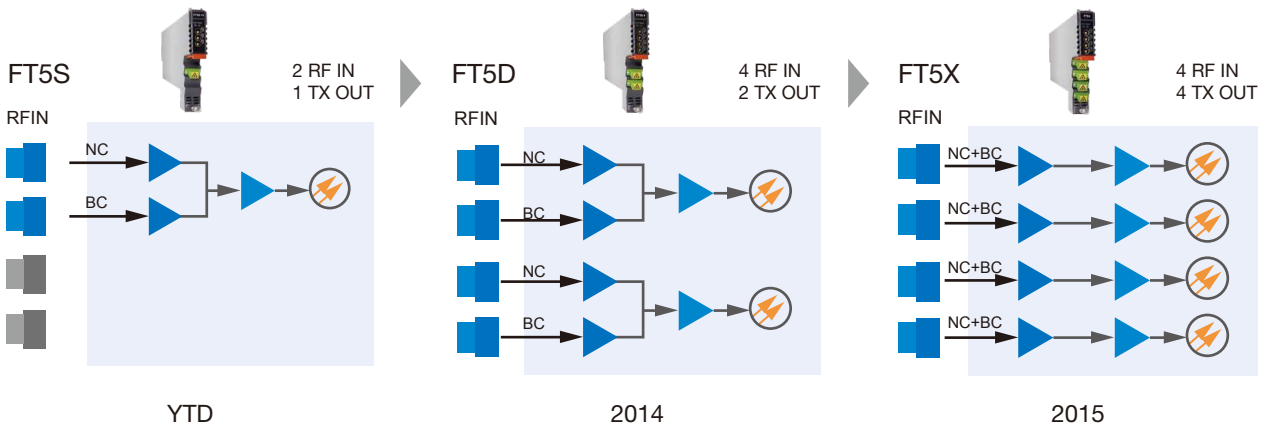
PBN's AIMA3000 HFC headend platform simplifies MSO's transition to IP networks by providing a complete range of intelligent, interoperable, RF and optical modules for HFC, RFoG, PON video overlay and other applications. The outside plant fibernode and amplifier portfolio integrates seamlessly into the headend products and can be managed from a network management single screen using PBN's NMS3 Enterprise software.

Product Portfolio Overview

Category		Product	
Headend	HFC Headend Platforms	<p>AIMA3000</p> <ul style="list-style-type: none"> • High density with 16 single, dual or quad application modules in one 4RU headend platform (Transmitter, Redundant Receiver, RFoG Receiver, Optical Switch, RF Switch, EDFA, Management Module) • Lowest power consumption per transmitter/receiver link in the industry • Hot-swappable application modules via management selectable auto-config features • Integrated front and rear fiber access panel for easy fiber management 	
		<p>DIMA</p> <ul style="list-style-type: none"> • Modular RF splitter and combiner framework with wide variety of configuration choices • Integrated cable management tray • High density platform with up to 20 slots 	
	HFC 1RU	<p>EDFA Optical Amplifiers</p> <ul style="list-style-type: none"> • Available with optional Redundant PS-Unit • Distribution EDFAs available with up to 32-ports 	
		<p>LTE153-6000</p> <ul style="list-style-type: none"> • Long-haul externally modulated transmitter with adjustable SBS • Available with 2x7 and 2x 10dBm • Link 100Km with EDFA 150Km • Standard Redundant power-supply units 	
		<p>OSF – Passive Optical Range</p> <ul style="list-style-type: none"> • Optical Splitters and Couplers • CWDM/DWDM 	
	Outside Plant	Fibernodes	<p>ODN – Optical Distribution Nodes</p> <ul style="list-style-type: none"> • Family of 1, 2 and 4 RF outputs • Segmentable configuration • Fully manageable proprietary FSK and DOCSIS HMS • Modular design with plug-in optics and swappable RF boat
Management	Network Management Software	<p>NMS3 Enterprise – Network Management Software</p> <ul style="list-style-type: none"> • Single-screen HFC/FTTx management and provisioning software suite • Inventory, alarm, telemetry and topology management • Email alarm notification and escalation • XML/Web interface for automated provisioning 	

Cost Effective Migration to Increase Bandwidth and Capacity

PBN already thinks about your future. PBN provides customers with a simple and cost-effective solution to offer more bandwidth through modular and segmental nodes as well as the AIMA3000 platform that offers up to 4 transmitters per slot.



High Density versus Green Deployment

Less is more. PBN's comprehensive high-density equipment ensures an optimal subscriber to headend ratio; increasing efficiency for a seamless green deployment and better management.

With increased efficiency comes increased savings. PBN's high-density modules lower power consumption and will reduce the overhead costs associated with deploying, operating, and maintaining network infrastructure. The result: less cabinet space, more subscribers, and a lower CAPEX.

About PBN

PBN is an experienced global supplier of optical broadband products and technology solutions for HFC, RFoG, FTTx and EMS/OSS applications. We enable profitable and scalable transitions to IP Networks, nowadays required by a consumer-empowered world. PBN is well known globally for its innovation and expertise, offering advanced fiber optic products and solutions for applications demanding high bandwidth for transporting video, VoIP and high-speed data. Today our products are installed to deliver comprehensive broadband access solutions to over 35 million subscribers, served by hundreds of headend facilities worldwide.

The PBN Advantage

- Integrated HFC portfolio for smooth deployment of headend and outside plant products
- Continued investment and commitment to HFC product lines
- Operational experience delivered (planning, deployment, support)
- Pre-integrated hardware and software packages are designed for sustainable operation
- High-quality products with competitive pricing to fit every business case
- Easy management due to sophisticated NMS3-software solutions which ensures stability and low OPEX
- Global 24/7 support organization operated by PBN

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